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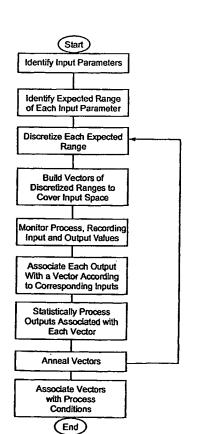
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(54) Title: SYSTEM AND METHOD FOR MONITORING PROCESS QUALITY CONTROL



(57) Abstract: A system and method for monitoring process quality control. A series of input parameters are identified as being significant in effecting the output of a process. Each input parameter has an expected range. Each expected range is discretized into a series of sub-ranges and a vector is built for each possible combination of sub-ranges. The process is then monitored to obtain a statistically significant set of samples, each sample comprising a process output and corresponding inputs (Fig. 2). A knowledge base and model are built (Fig. 5).

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PCT/IL01/00937

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : G06F 7/60, 17/10, 17/50; G06G 7/48 US CL : 703/2, 6, 13							
According to International Patent Classification (IPC) or to both national classification and IPC							
B. FIEL	B. FIELDS SEARCHED						
Minimum documentation searched (classification system followed by classification symbols) U.S.: 703/2, 6, 13							
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched							
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet							
C. DOC	UMENTS CONSIDERED TO BE RELEVANT						
Category *	Citation of document, with indication, where a		Relevant to claim No.				
X		5,866,437 A (CHEN et al.) 02 February 1999 (02.02.1999), Abstract, Figures 2-3, ground of the Invention, Summary of the Invention, col 2, lines 64 et seq.					
X	US 6,125,235 A (PADILLA et al.) 26 September 2000 (26.09,2000), Abstract, Figures 1-6, Background of the Invention, Summary of the Invention, col 5, lines 56 et seq.						
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x	US 5,546,312 A (MOZUMDER et al.) 13 August, 1 5, Background of the Invention, Summary of the Inv	1-26 ·					
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х	US 5,646,870 A (KRIVOKAPIC et al.) 08 July, 199 9B, Background of the Invention, Summary of the In	1-26					
x	US 5,956,251 A (ATKINSON et al.) 21 September 17, Background of the Invention, Summary of the In	1-26					
х	US 5,781,430 A (TSAI et al.) 14 July 1998 (14.07.1 Background of the Invention, Summary of the Inven	1-26					
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	r documents are listed in the continuation of Box C.	See patent family annex.					
· s	ternational filing date or priority						
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INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL01/00937

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The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

NEW ABSTRACT

A system and method for monitoring process quality control. A series of input parameters are identified as being significant in effecting the output of a process. Each input parameter has an expected range. Each expected range is discretized into a series of subranges and a vector is built for each possible combination of sub-ranges. The process is then monitored to obtain a statistically significant set of samples, each sample comprising a process output and corresponding inputs (Fig. 2). A knowledge base and model are built (Fig. 5).

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